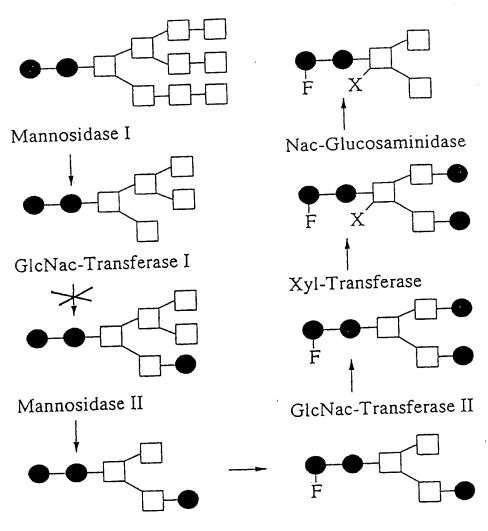
Figure 1



Fuc-Transferase

Figure 2

Al GntI cDNA

GAAT	TCGC	GG C	cGCC	TGAG	A AA	ссст	CGAA	TTC	AATT	TCG	CATT	TGGC	AG A		G t 1	55
AGA Arg	GGG Gly	AAC Asn	AAG Lys 5	T TT Phe	TGC '	TTT Phe	GAT Asp	TTA Leu 10	CGG Arg	TAC Tyr	CTT Leu	CTC (Leu	GTC Val 15	GTG Val	GCT Ala	103
GCT Ala	CTC Leu	GCC Ala 20	TTC Phe	ATC Ile	TAC <i>Tyr</i>	ATA Ile	CAG Gln 25	ATG Met	CGG Arg	CTT Leu	TTC Phe	GCG Ala 30	ACA Thr	CAG Gln	TCA Ser	151
GAA Glu	TAT Tyr 35	GTA Val	GAC Asp	CGC Arg	CTT Leu	GCT Ala 40	GCT Ala	GCA Ala	ATT Ile	GAA Glu	GCA Ala 45	GAA Glu	AAT Asn	CAT His	TGT Cys	199
ACA Thr 50	AGT Ser	CAG Gln	ACC Thr	AGA Arg	TTG Leu 55	CTT Leu	ATT Ile	GAC Asp	AAG Lys	ATT Ile 60	AGC Ser	CAG Gln	CAG Gln	CAA Gln	GGA Gly 65	247
AGA Arg	GTA Val	GTA Val	GCT Ala	CTT Leu 70	GAA Glu	GAA Glu	GIR	ATG Met	AAG Lys 75	CAT His	CAG Gln	GAC Asp	CAG Gln	GAG Glu 80	TGC Cys	295
CGG Arg	CAA Gln	TTA Leu	AGG Arg 85	GCT Ala	CTT Leu	GTT Val	CAG Gln	GAT Asp 90	CTT Leu	GAA Glu	AGT Ser	AAG Lys	GGC Gly 95	ATA Ile	AAA Lys	343
AAG Lys	TTA Leu	ATC Ile 100	GGA Gly	GAT Asp	GTG Val	CAG Gln	ATG Met 105	CCA Pro	GTG Val	GCA Ala	GCT Ala	GTA Val 110	GTT Val	GTT Val	ATG Met	391
GCT Ala	TGC Cys 115	Ser	CGT Arg	ACT Thr	GAC Asp	TAC Tyr 120	CTG Leu	GAG Glu	AGG Arg	ACT Thr	ATT Ile 125	AAA Lys	TCC Ser	ATC Ile	TTA Leu	439
AAA Lys 130	Tyr	CAA Gln	ACA Thr	TCT Ser	GTT Val 135	GCA Ala	TCA Ser	AAA Lys	TAT Tyr	CCT Pro 140	Dea	TTC Phe	ATA Ile	TCC	CAG Gln 145	487
GAT Asp	GGA Gly	TCA Ser	AAT Asn	CCT Pro 150	Asp	GTA Val	AGA Arg	AAG Lys	CTT Leu 155	AIG	TTG Leu	AGC Ser	TAT	GGT Gly 160	CAG Gln	535
CTC Lev	ACG Thr	TAT Tyr	ATG Met 165	Gln	CAC His	Leu	Asp	TAT	Gru	PLO	, var	CAT	ACT Thr 175		AGA Arg	583
CC! Pro	GGG Gly	GAA Glu 180	ı Leu	GTI Val	GCA Ala	TAC	TAC Tyr 185	. ras	ATT	GCA Ala	CGT Arg	CAT His 190	TAC	: AAG : Lys	TGG Trp	631
Ala	a Lev 199	ı Asp	p Glr	ı Lev	ı⊹Pne	200	; гуs	, ur:	*		205	, 9			ATA Ile	679
CT. Lev	u Glu	A GA' 1 As	r GAT p Asi	TATO Met	G GAA Glu 215	1 116	GCT Ala	r GCT a Ala	r GAT a Asp	TTT Phe 220		GAC Asp	TAT	r TT	GAG Glu 225	727

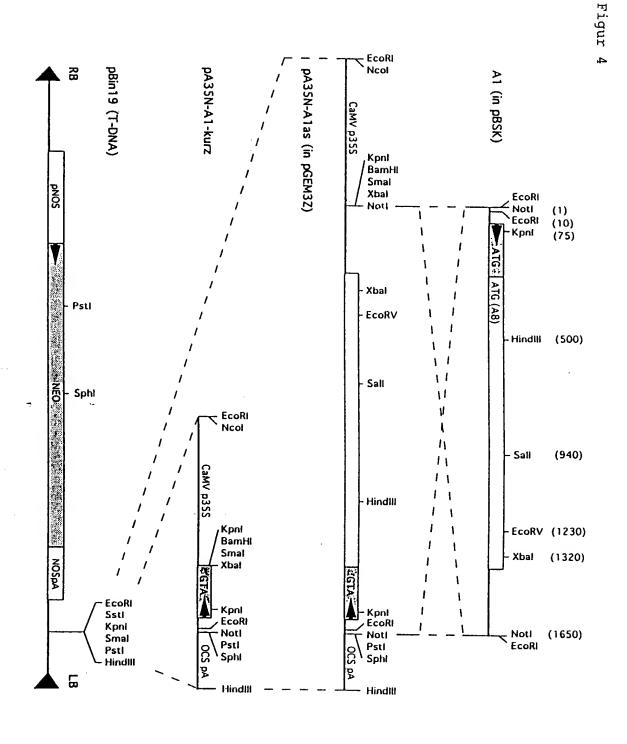
Figure 2 (continued)

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GCT GGA GCT ACT CTT GAC AGA GAC AAG TCG ATT ATG GCT ATT TCT Ala Gly Ala Thr Leu Leu Asp Arg Asp Lys Ser Ile Met Ala Ile Ser 230	775
TCT TGG AAT GAC AAT GGA CAA AGG CAG TTC GTC CAA GAT CCT GAT GCT Ser Trp Asn Asp Asn Gly Gln Arg Gln Phe Val Gln Asp Pro Asp Ala 250 250 255	823
CTT TAC CGC TCA GAC TTT TTT CCT GGT CTT GGA TGG ATG CTT TCA AAA Leu Tyr Arg Ser Asp Phe Phe Pro Gly Leu Gly Trp Met Leu Ser Lys 270	871
TCA ACT TGG TCC GAA CTA TCT CCA AAG TGG CCA AAG GCT TAC TGG GAT Ser Thr Trp Ser Glu Leu Ser Pro Lys Trp Pro Lys Ala Tyr Trp Asp	919
275 GAC TGG CTA AGG CTG AAA GAA AAT CAC AGA GGT CGA CAA TTT ATT CGC Asp Trp Leu Arg Leu Lys Glu Asn His Arg Gly Arg Gln Phe Ile Arg 295 305	967
CCA GAA GTT TGC AGA ACG TAC AAT TTT GGT GAG CAT GGT TCT AGT TTG CCA GAA GTT TGC AGA ACG TAC AAT TTT GGT GAG CAT GGT TCT AGT TTG Pro Glu Val Cys Arg Thr Tyr Asn Phe Gly Glu His Gly Ser Ser Leu 320	1015
GGG CAG TTT TTT AAG CAG TAT CTT GAG CCA ATT AAG CTA AAT GAT GTC Gly Gln Phe Phe Lys Gln Tyr Leu Glu Pro Ile Lys Leu Asn Asp Val 330	1063
CAG GTT GAT TGG AAG TCA ATG GAC CTA AGT TAC CTT TTG GAG GAC AAC Gln Val Asp Trp Lys Ser Met Asp Leu Ser Tyr Leu Leu Glu Asp Asn 350	1111
TAT GTG AAA CAC TTT GGC GAC TTG GTT AAA AAG GCT AAG CCC ATC CAC TVT Val Lys His Phe Gly Asp Leu Val Lys Lys Ala Lys Pro Ile His	1159
GGA GCT GAT GCT GTT TTG AAA GCA TTT AAC ATA GAT GGT GAT GTG CGT GIV Ala Asp Ala Val Leu Lys Ala Phe Asn Ile Asp Gly Asp Val Arg 385	1207
ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC CAA CTA GAC TTT GAA GAT ATC GCT CGA CAG TTT ATT CAG TAC AGA GAC TTT GAA GAT ATC GCT CGA CAG TTT GAT ATC GCT CAG TTT GAT ATC G	1255
GGC ATT TTT GAA GAA TGG AAG GAT GGT GTA CCA CGG GCA GCA TAT AAA Gly Ile Phe Glu Glu Trp Lys Asp Gly Val Pro Arg Ala Ala Tyr Lys 415	1303
GGG ATA GTA GTT TTC CGG TTT CAA ACA TCT AGA CGT GTG TTC CTT GTT Gly Ile Val Val Phe Arg Phe Gln Thr Ser Arg Arg Val Phe Leu Val	1351
TCC CCT GAT TCT CTT CGA CAA CTT GGA GTT GAA GAT ACT TAG Ser Pro Asp Ser Leu Arg Gln Leu Gly Val Glu Asp Thr End 445	1393
435	1453
CGAAGATATG ATTGGAGCCT GAGCAACAAT TTAGACTTAT TTGGTAGGAT ACATTTGAAA	1513
GAGCTGACAC GAAAAGTATG ACTACCAGTA GCTACATGCA ACATTTTAAT GTTAATGGAA	1573
GGAACCCACT GCTTATTGTT GGAATGGATG AATCATCACC ACATCCTATT ATTCAAGTTT	1633
ACAAACATAA AGAGGAAATG TTGCCCTATA AAAACAAATT TTTTGTTTCT AAGAAGGAAC	1669
GTTACGATTA TGAGCAACTT TGGCGGCCGC GAATTC	

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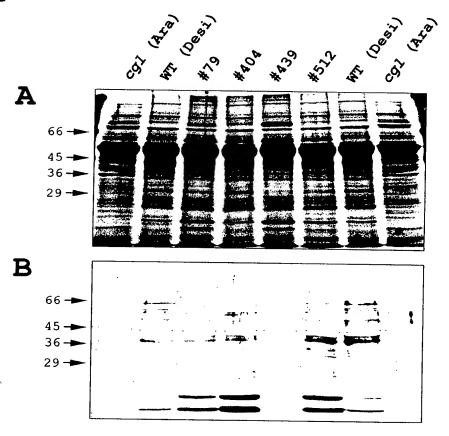
Ra	Mo	Ce		
36	35	33	St	
(57)	(59)	(57)		
92	91	38	Hu	
(95)	(94)	(57)		
	90	38	Ra	
	(93)	(57)	ıα	
	<u></u>	38	Mo	
		(58)	MO	
	36 (57) 92	36 35 (57) (59) 92 91 (95) (94) 90	36 35 33 (57) (59) (57) 92 91 38 (95) (94) (57) 90 38 (93) (57)	

Figure	3B		TO SELVED I AD I FAENHCT
A_Stb-A B_Ntb-A C_Atb-F	.9	1 1 1	MRGNKFCEDLRYLL AA AFIYIQMRLFATQSEYVDRLAAAIEAENHCT MRGNKFCCDERYLLIDAA AFIYEQMRLFATQSEYADRLAAAIEAENHCT MAEISCDLRELLIPAAEMFIYIQMRLFQTQSEYADRLSSAIESENHCT
A_Stb-A B_Ntb-A C_Atb-F	.9	51 51 49	SQTRLLIDKISQQQGRWALEEQMKWQDQECRQLRALVQDLESKGIKKLI SQTRLLIDGISQQQGRIVALEEQMKRQDQECRQLRALVQDLESKGIKKLI SQMRGLIDGISGKQSRIVALEEMKNRQDEELVQLKDLWQTFEKKGIAKLT
A_Stb-A B_Ntb-A C_Atb-E	19	101 101 99	GEVOMPVAAVVVMACSREDYLERTIKSILKYQTSVASKYPLFISQDGSNP GNVOMPVAAVVVMACNRADYLEETIKSILKYQTSVASKYPLFISQDGSEP QGGOMPVAAVVVMACSRADYLERTEKSELTYOTPVASKYPLFISODGSEQ
A_Stb-2 B_Ntb-2 C_Atb-1	A 9	151 151 149	DVRKLALSY GOLTYMOHLD GEPVHTERPGEL AYYKIARHYKWALDOLF L DVRKLALSY GOLTYMOHLD FEPVHTERPGEL AYYKIARHYKWALDOLFY AVISK LSY GOLTYMOHLD FEPV TERPGEL AYYKIARHYKWALDOLFY
A_Stb-AB_Ntb-AC_Atb-	A 9	201 201 199	KHNFSRVIILEDDMEIAPDFFDYFEARAGLEDRDKRIMAASSWNDNGORO
A_Stb- B_Ntb- C_Atb-	A9	251 251 249	FVODPYALYRSDFFPGLGWMLSKSTWDELSPKWPKAYWDDWLRLKENHWG
A_Stb- B_Ntb- C_Atb-	A9	301 301 299	ROFIRPEVCRTYNFGEHGSSLGOFFSOYLEPIKLNDV WDWK KDLGYLT
A_Stb- B_Ntb- C_Atb-	- A 9	3 5 1 3 5 1 3 4 1	EDNYVKHEGDLVKKAKPIHGADAVLKAPNIDGDDRIRYEDQVERERIAGE
A_Stb B_Ntb C_Atb	-A9	40 40 39	1 FGIFEEWKDGVPRAAYKGIVVFROOTERRVFLVGPDSFMQLGIRE
		-	



TORGILER ORDO

Figur 5



Figur 6

